CLAIMS

1. A fluid container for use with an electrohydrodynamic spray device, wherein

said container comprises

at least one reservoir configured for holding a sprayable liquid,

at least one interface in fluid communication with said reservoir,

at least one manifold comprising at least one fluid path, said fluid path in fluid communication with said interface, and at least one nozzle comprising at least one spray site, said spray site in fluid communication with said fluid path; and said device is configured to engage said container.

- 15 2. The fluid container of claim 1, wherein said device and said container are each configured so that when said container is engaged with said device, at least a portion of said container extends out from said device.
- 3. The fluid container of claim 1, wherein said sprayable liquid is selected from a rinsing solution, a target preparation solution, a solution containing an active ingredient, a target sealing solution, or combinations thereof.
- The fluid container of claim 1, wherein said reservoir is configured for holding a first sprayable liquid and a
 second sprayable liquid, said first sprayable liquid comprising a solution containing an active ingredient, and said second sprayable liquid selected from a rinsing solution, a target preparation solution, a target sealing solution, or combinations thereof.

- 5. The fluid container of claim 3, wherein said rinsing solution comprises a polar solvent.
- 6. The fluid container of claim 3, wherein said rinsing solution comprises a non-polar solvent.
 - 7. The fluid container of claim 3, wherein said rinsing solution comprises water.
- 10 8. The fluid container of claim 3, wherein said target preparation solution comprises a compound that opens pores in the cuticle of a target.
 - 9. The fluid container of claim 8, wherein said compound that opens the pores in the cuticle of a target is an alkyl ester of fatty acid.
 - 10. The fluid container of claim 9, wherein said alkyl ester of fatty acid is methyl oleate.
- 11. The fluid container of claim 3, wherein said solution containing an active ingredient is water-based.
 - 12. The fluid container of claim 3, wherein said solution containing an active ingredient is oil-based.

- 25 13. The fluid container of claim 12, wherein said oil-based solution is a non-aqueous, oil-continuous microemulsion.
 - 14. The fluid container of claim 3, wherein said solution containing an active ingredient is a pesticidal formulation.

15. The fluid container of claim 14, wherein said pesticidal formulation is selected from a herbicide, a fungicide, an insecticide, an acaricide, a miticide, a molluscicide, a nematicide, a rodenticide, a plant desiccant, a plant-growth regulator, or combinations thereof.

5

- 16. The fluid container of claim 15, wherein said herbicide is a polar-acidic agrochemical complex selected from glyphosate, 2,4-D, glufosinate, or combinations thereof.
- 10 17. The fluid container of claim 3, wherein said target sealing solution comprises a compound that seals the pores in the cuticle of a target.
 - 18. The fluid container of claim 17, wherein said compound that seals the pores in the cuticle of a target is selected from bone glue, polyvinyl alcohol, polyvinyl acetate, drying oils, natural oils, and combinations thereof.
 - 19. The fluid container of claim 1, wherein said container is configured to be refillable, recyclable, or disposable.
- 20 20. The fluid container of claim 1, wherein said container is configured to prevent any interaction between a user of said electrohydrodynamic spray device and said sprayable liquid contained within said container.
- 21. The fluid container of claim 1, wherein said container is configured such that when said container is engaged with said electrohydrodynamic spray device, said device recognizes said sprayable liquid contained within said container and automatically adjusts certain pre-defined settings in accordance with the characteristics of said sprayable liquid.

- 22. The fluid container of claim 21, wherein said pre-defined settings are entered manually by a user of said device in accordance with the characteristics of said sprayable liquid.
- 5 23. The fluid container of claim 1, wherein said container is configured such that when said container is engaged with said electrohydrodynamic spray device, said device recognizes said sprayable liquid contained within said container and allows the spraying thereof.
- The fluid container of claim 1, wherein said container is configured such that when said container is engaged with said electrohydrodynamic spray device, said device recognizes the amount and/or expiration date of said sprayable liquid contained within said container and alerts a user of said device when a new container is required.

25. A fluid container for use with an electrohydrodynamic spray device, wherein

said container comprises

two or more separate reservoirs, each said reservoir configured for holding a disparate sprayable liquid,

two or more interfaces, each said interface in fluid communication with one said reservoir,

at least one manifold comprising two or more separate fluid paths, each said fluid path in fluid communication with one said interface, and

at least one nozzle comprising at least one spray site, said spray site in fluid communication with one or more said fluid paths; and

said device is configured to engage said container.

20

10

15

20

25

26. A fluid containment system for use with an electrohydrodynamic spray device, wherein said system comprises

two or more fluid containers, each said fluid container comprising at least one reservoir configured for holding a sprayable liquid,

at least one interface in fluid communication with said reservoir.

at least one manifold comprising at least one fluid path, said fluid path in fluid communication with said interface, and

a common nozzle, said nozzle comprising at least one spray site, said spray site in fluid communication with at least one fluid path.

27. The fluid containment system of claim 26, wherein at least one said fluid container comprises

two or more reservoirs, each said reservoir configured for holding a disparate sprayable liquid, and

two or more interfaces, each said interface in fluid communication with one said reservoir and one said fluid path.

28. A fluid containment system for use with an electrohydrodynamic spray device, wherein said system comprises

two or more fluid containers, each said fluid container comprising at least one reservoir configured for holding a sprayable liquid,

at least one interface in fluid communication with said reservoir,

at least one manifold comprising at least one fluid path, said fluid path in fluid communication with said interface, and

two or more nozzles, each said nozzle comprising at least one spray site, said spray site in fluid communication with at least one fluid path.

5 29. The fluid containment system of claim 26, wherein at least one said fluid container comprises

two or more reservoirs, each said reservoir configured for holding a disparate sprayable liquid, and

two or more interfaces, each said interface in fluid communication with one said reservoir and one said fluid path.

- 30. A method of delivering a sprayable liquid to a target by means of electrohydrodynamics comprising:
 - a) loading a fluid container into an electrohydrodynamic spray device,
 wherein said fluid container holds a sprayable liquid;
 - b) entering data on said sprayable liquid into said device;
 - c) priming said device such that said sprayable liquid is delivered to a nozzle in fluid communication with said container;
 - d) positioning said nozzle adjacent said target; and
- e) delivering said sprayable liquid to said target as a charged aerosol by activating said electrohydrodynamic spray device.
 - 31. The method of claim 30, wherein said electrohydrodynamic spray device further comprises a microprocessor and said entering data on said sprayable liquid into said device is automatically performed upon loading said fluid container into said electrohydrodynamic device.
 - 32. The method of claim 30, wherein said priming is automatically performed upon loading said fluid container into said electrohydrodynamic spray device.

25

10

10

- 33. The method of claim 30 further comprising rinsing said nozzle prior to and/or following said delivering said sprayable liquid.
- 34. A method of delivering a sprayable liquid to a target by means of electrohydrodynamics comprising:
 - a) loading a fluid container into an electrohydrodynamic spray device, wherein said fluid container holds a sprayable liquid;
 - b) entering data on said sprayable liquid into said device; and
 - c) adjusting certain pre-defined spray parameters in accordance with the characteristics of said sprayable liquid and said data entered.
- 35. The method of claim 34 wherein said entering data on said sprayable liquid and said adjusting certain pre-defined spray parameters is automatically performed by said device or manually entered by a user.